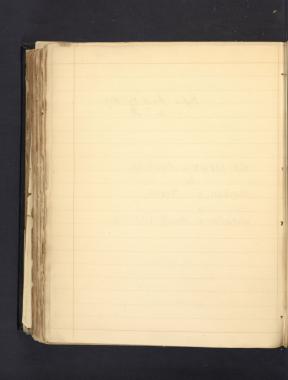
10 20 / 64 changed N. 2 Walnut and 29" 1827 h. S. H. an Essay on Frachitis. Mordecai. C. Myers. Georgetown South Carolina



Of all the descases which attack mankind those is none more deserving of particular investigation than Frachilis - It holds. a rank among our infantile diseases remarkable for the prequency of its occurrence and ungular in the violence of its termination - although various have been the remodies prescribed it sometimes baffles the shill of the onlightened and judicious physician and damps the prospects of a fond and affectionate parent, sometimes it offers to us the hope of a favourable tomination but in the next moment such is its insiding nature that it terminates with all the agonice of death .- In considering this subject little can be a do anad by me as the result of experience o reflection and in treating it that practice will be adopted which is the most weful and pertinent. It has been called affection othopnorca, cynanche stridula, angina suffocatoria, by Cullen and Rush cymanche or angina trachealis, by Home suffication stridula, also by the names of morbid strangulationing, morbid truculenties Infantum, angena membranacia polypora, cy nanche laryngea, orthopnea membranacea and by Frank trackette Infantum . - The impropriety of all these terms is, that they give

as but a partial view of the phenomina of the disease and not a horostedge of the disease strely the last is adopted as the most appropriate name conveying the idea that it is of the same nature as pleasety personely sec.

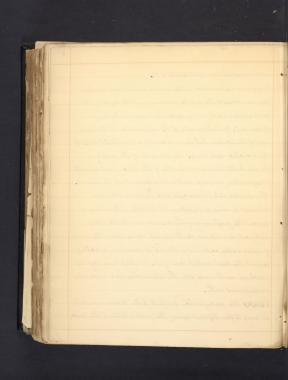
The credit is given to to Flore of Edenburgh, for having first described this disease which was published in an epay in 1765, but it must have been known previous to that time as appears from It stars account of the morbus strangulatoring written in 1749 and mention is made of its prevailing by ghise an Italian physician in 1748. It was oven not unknown to Boorhaave as is seen from his aphonism No 801. The first account of it in this country was as easly as 1710 when to Rush advanced the opinion it was a sparmodic affection. This appeared in a letter written by him to Ir Millar of Soudon, but afterwards as appears from his medical inguine published in 1794, he thought there was another species of the disease, which he denominated Cynanche humda trachealis, the character which he apigns to the former disease is that it makes its appearance suddenly and at night, is palliated by antispasmodic medicine

. has well marked intermission and is not attended by any discharge from the tracker, but the latter is more slow in its progrep, comes on during the day, requires the most powerful remedic to overcome it, and as it advances in creases in in olence. The next writer is to Band who published in 1771 an account of the son throat distemper which privailed in the city and country of New york, He throught it similar to the sufficatio stridula of to Home and describes it as being injectionsthis he supposed was not owing to any mobil state of the atmosphere, ast prevailed in artain families, while persons in an adjoining residence, were exempt from it, the ascumstance of its being infections, and the lancet being so decededly injunous would enduce as to infer that it was not genuine croup, but more of the putred sore throat with crowley symptoms supervening on it. to Chalmer in his account of the diseases of Earolina published In 1776 has accurately described this affection, He calle it the sufficating or catarrhal perfeneumony of children, and rays that it affects the voice very reasibly that the heaveness is peculiar at the time of coughing or coying, there was great restignes with difficulty of assistation and adds those children

under tyears old were most hable to it.

Croup is an inflammation in the largue and tracked affecting their membranes or the muscles adjoining and the before of the hast are excited to such a degree that coagulable by mph is thrown out. It Celler restricts the inflammation to the upperhast of the tracken, but this is incorrect, as it extends itself to the bronches and lungs. The character of the disease is ha own by the peculiar intonation of the voice, great difficulty of resperation, process and a straitening about the largue. It is divided into Spasmodic and Inflammatory, and whenever it comes on indidenty, it partakes of the nature of spasm - The pathology of the disease corroborates this statement, as whenever death quickly occurs none of the marks of inflammation exist, but protracted for some time depections exhibit the most violent forms of it. In Chapman says no mactical result arisis from this distinction and hence may be dispensed with.

Causes The predisportion of usants to this dream is said to be owing to four different cause; the great actuaty of the mucons



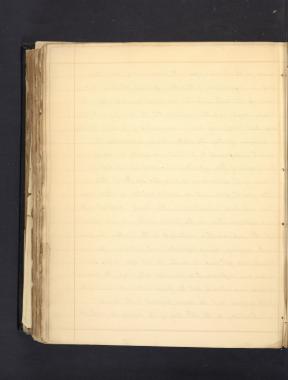
. System during childhood, the facility with which the affections of this system are developed, the great rescribility of infants to disease, and finally the contracted disservious of the gloths, lary ha and tracked in them, when compared with adults .doe, temperament and education are said to cooperate with the above in the production of the disease, and as segards the first, it is aported by June and albert to occur more frequently in boys than in girls, and hence they conclude that the development of the tracked and largue, is not the same in both wees. This aportion is contradicted by other authors, who may that both were are equally liable to it. With respect to temperament, the ranguase lymphatic and nervous, are said to be the most readily affected, and on education and management more will depend than on either of the above. The more immediate causes are cold and a moist temperature, they give neve to catarrhal affections, which leave the system in a condition peculiarly liable to attacks of croup. It is more prequent in Winter and Spring when the weather is changeable, its prevalence is compined to the sea coast, where the air is extremely humid, also in the neighbourhood of mountains or about



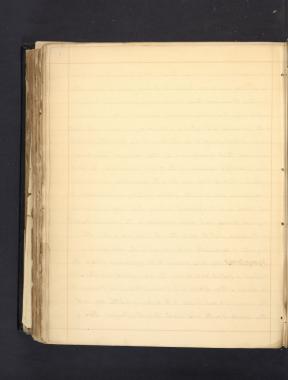
lakes and miss. It is endemial to particular setuations as at Sath it is mot involente in its attacks, while at Edinburgh it is comparatively wave and mild - The same thing is raid to occur in our own country, as at Baltimore and Fell point. Those children which have had it are liable to fature attache, it has sarely been known to affect adults or those beyond the age of 12 or 14 years - It generally does not occur before wearing, but Chey he says he has known it to anse when the patient was but three months old and or Chapman ray he has known it a the month - It has appeared in a secondary from in consequence of initation from worms, also from indegestable food - or Wilson say that the primary seat of initation is in the digestive organs where is generated by Morbid sympathy a spasmodic affection of the glottes, ending in inflammation of the mucous membrane of the lary we and tracked, ultimately destroying the action of the lungs by rendering them impervious - a peculiarity attending the complaint is the circumstance of its existing in certain families and attacking the most middly and robust children. The first attack establisher a predisportion to the



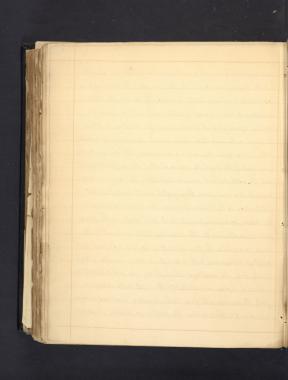
, disease as the slightest cour will produce it a second time and in confirmation of this those patients who have had it, when affected with catanhal complaints have mon or lop of the cosupy cough and they continues tell the 12 or 14 year. In Cullen my that Boup may arese in consequence of Cynanche tonsillars or maligna affecting the glotter, largue and tracken, the remark is confirmed by Ir Bard who says he has seen it as a consequence of these affections. Two cases are related by. Firman of its supervening on alcorated sore throat there was little general fever and no scarlet origition in either case. Those were large ulcerations in the tonsely together with more inflammation in the fauces nothing ungular appeared till the inflammation extended to the tracker when print shill conghing, beging respiration and restlepay came on, which were followed by death, he also rays, he has seen preumonic inflammation convoted into Coup, the pain in the side was relieved, but the pulse continued rapid with great dysperse and the cough prequent, with much · capectonation, on the 10th day of the disease the patient



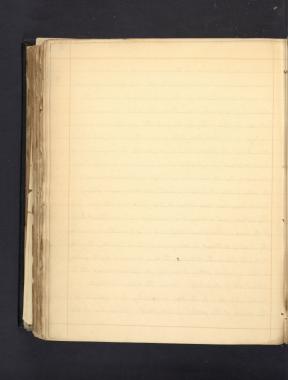
complained of pain in his throat which torminated in Coorp .-Under wood has known known it to take place during an attack of putrid thoush and hush says he has seen it succeed small from and meadles . It is not an uncommon recurrence for Breek to supercom on the last disease as its influence on the economy is of such a nature as to under it predispond to an attack . It has been attempted to be explained, that measles and the other cutaneous phlegmasia, have a motopic influence on the organs of respiration the effect of which is to orate comp, and this is the explanation given why it is a consequence and symptom of those exections - In contradiction to all Those raid to Caldwell contonds that Group is always an original disease, and never supervenes on the cynanche tonsillary or malegna, but to repute this all I will wage is that the majority of respectable writers concur in the above operson. Symptoms. some days provious to the appearance of Brough the patient is fretful and drowny the eyes suffered and blood shot, the disease is then ushered in by hearings and cough compared to the covering of a cock by some to the basking of a little dog, and others describe it as the worse made through a trumpet, there if



great difficulty of superation, with a whorzing mind in inspiration, as if the tracked was clogged up, the experien of the counterance is remarkable and will dearly indicate the disease, the patient indeavour to relieve himself by retting over, but no change of porture affords while, it is not unusual for nomiting to attend the cough in the early stage, which does not depend on any affection of the gastrie apparatus, but is a consequence of the engh - during a parayon of the cough the face is flushed the eyes protuborant and the lettle patient gasps for respiration, the cough is more generally dry and if any thing is stat up, it has a purulent appear ance. as the disease progreps, there is some inflammation in the belum pendulum palate tousies and would in the fauce there is sometimes a matter resombling that produced by the cough, in addition to these symptoms the pulse is pequent great resteptup accompanied with drownings, an uneasy sensation of heat over the body, the heart and asteries thrown into order palpitation, respiration becomes more stridular, the child makes uncommon efforts, the muscles of the face, neck, shoulders, breast and abdomen contract in a violent manner, the norticle are delated, the whole



system becomes convoilsed, the largue a seends and descends inapartly and at each inspiration the whole thour and shalders are raised up, with some the horizontal situation increases the difficulty of respiration, some throw their heads back was do to increase the rine of the largue, and thus give the air an easier papage, in the last stage of the disease, the muscles of the breast cease to act, the thorax remains immoveable, the deaphrage is alone concerned in respiration, its contractions are to molent and convulous, that the intercortal cartilages are forced to partake of the same action, the patient is feeble and continually dowing, hamonhages have been known to take place from the none, but this is sare, and is oring to an increased determination of blood to the head - This disease carely and in suppuration a gangine, the child is destroyed in consequence of sparm affecting the glotter or matter felling the bronchia, the face provious to death apume a blue or purple colour, prequently convulsions succeed the violent fits of coughing - Should the disease terminate favour ably, it is by the fever mederating, by a cepation of the spain of the glottie, by equability of temperature, by the



system becoming inscribble to the action of medicine, by expectoration of matter from the tracker, and by an easy nespiration - Should it supervise on measter, sone throat a thrush it is generally violent in its effects- sometimes symptoms calculated to cheer and buoy the mind with hope present themselves, such as copious expectoration and diaphocois, but these are in general preciences of a fatal ifree unless accompanied by an easy respiration - It has terminated fatally in a few hours and is cometines protocoted for a week, but this depends in a great measure on the age and constitution of the child and the sistence of the inflammation, sometimes after the disease has continued for a short time, a viscid and white substance is expectorated and the child is relieved, this does not always happen, as Cheyne relates a case where the membrane was rejected completely formed, and yet the child died, the dinare to often chronic and does not subside for weeks. a chronic affection of the largue and tracked may aris from it as well as chronic bronchitis-Group has been confounded with acute arthura, but the symptome

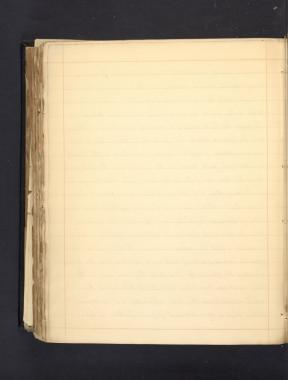
are well marked in each. In the latter the attack is oudden, there is very little five, its character is truly sparmedic, there is some remission in its symptoms attended with a womiting purgue, or believing, the false membrane more exists, and its real is in the thorax and not in the tracken and largue. appearances on dissection. There is a great similarity in the external appearance of the body in those who have died of this disease and those who die of whay are and particularly when the disease is short and molent, and the patient had perished from suffication. The face is pale and lived, the any projecting, and the veins of the nach engaged, sometimes we find a usus effusion at the base of the crancism, or in the carries of the brain, and prequently an ingorgement of the repell which penetrate the cerebral substance, but we can never perceive any alteration in the substance itself, there is a hymphatic incrustation living the tracked with a outstance of less tenacity, extending into the minutest ramifications of the bronchia, the thicknep and appearance of the membrane varies, and this in proportion to the ordence and duration

applicanances in dispection, where is over the first

of the disease, the lung are investing filled with blood and accomplating of other matter, but more prequently they are healthy and ma natural condition, unles complicated with some other disease, we sometimes find an effective of return in the cavities of the plane and pericardium, concertions in the careties of the heart, a considerable quantity of blood collected in the right airide, the bone cave defero and the internal pigular, which phenomena are attributed to the difficulty of respiration accompanying Book. The gastric and abdominal viscora present no particular attention - with again to the membrare formed in boufe, Home believed that it was the effect of a resetion of mucus on the inside of the tracker, and that its formation was the cause of the disease. Rush considers it only an effect of brough, and says the tracked of children abounds with a greater quantity of mucus than that of adults. The membrane is formed a consequence of the repels of the trackes being inflamed, and the mucus the own out, is in proportion to the intation outsing and when it is increased beyond the ordinary quantity, it cannot be discharged. It Bailes says the mucae membrane of the tracked is or moded with repely, which give it



an appearance of varcularity, during inflationation, the receiving from its glands must be increased and thus is it found filled with a mucous fluid he ray it is often lined with a layer of well worth pulpy matter, which can be reparated and which extends into the lung. He hence appears to conclude that it is a restion from the mucros glands, but Cheyne in opportion way he had seen a substance of different degrees of consistence, at the Epiglottis puriform and quite fluid, at the larger more tenacous and living the love part of the tracks from and membranows. he conclusion is, that it is not insperted mucus, from its bearing maceration, without having its structure distroyed, and also from its chemical projectics being different. The recretions from the nove and tracked in catarrhal affections is very depender, to that the inference drawn is, that it is an exadation from the exhalent arteries and not a secretion from the mucas glands - by some writers it is said they have seen in the false membrane true febres, and small bloodvefrels, from which circumstance they have attributed to it an organic texture, and a commencement of participation in life ...



was you constraint this statement for in inflammation of your mentions fair themberry are the metalogs to that of drap. In the inflammation of the neutrons of courts and i the office of Pleister, being the cause of additions between the lungs and plants. Who a cur is effected, there are transfer the lungs and plants, when the he had the lungs affected the with and thus on man conclude, if the place membrane of Brappenents in negativation, it was for the not lung sufficiently formed and that the time for completing it is worted by the death of the child, which if it ended he provides to membrane and formed the non-larger of organization is to place membrane of the membrane of th

Brok as it provale among the Sociene children, is a highly designer disease. These method of treating it is by Coneties, which they accomplete by the Coneties. Charactery come for, fredephylliam feltatum, and frequently they wart to a father by enaming it some the thirst- after the third fine feature it to married in the patient it thousands in the patient is a some on the strong. This constant is the start of this in concentration have are not a given and of the



utility of Emetics-

Incalment with regard to the treatment of Brap, the plan of case will be directed to the two stages, the inflammatory and the purulent - Emetics have been recommended and with great propriety, as they are among the most especiaring of our remedice whom administend early- The prompt relief afforded by them, is seen in almost every case, respiration becomes easier, the skin more moist, the pulse lep frequent, and the opprepria deminished. I hyracore have nearly all agreed upon the necepity of senerction which is early to be a dopted. The determination of blood to the part affected, and the febrile excitement is so great, that every means for lepening the plethora of the befole, and diverting the instalion, becomes necessary, if defend until effusion has taken place, and a membrahous concretion formed in the tracker it tends to increase its violence and may produce death. The projection existing against this remarky has partially counteracted its beneficial effects for those who have pursued the practice, have not cannot it to a sufficient extent to subdue the highly inflammator symptoms, and thus have



been forled in over coming the disiale. This has arisen from an moneous imprepion that the constitutions of children is not sufficiently orgonous to undergo active depletion, but to use the language of to Chapman, who has judiciously remarked that almost all of their affections partake of an inflammatory rature, and hence they require more prequently to be bled, to states that they recover much somer from the effects of non iting, purging, and bleeding than adults and ray whilst a remnant of life remains, he never considers their acute diseases as desperate. ne rule is established for the quartity to be drawn this will depend on the strength of constitution and the motiones of the attack. In general to a child under two years, from two to four owners, and to me of free years from foi to one or eight nevers is sufficient .-By to Chapman the credit is ascribed to to tick of alexandra for enter ducing blading to the extent to which it is more carried, but this is desired by some of the practitioner of new york who claim the provity of the practice for Do Bayley of that aby as to the method of detracting blod, medical men are divided some advising it from the jugular seen, other from



the back of the hand - It appears that the profescion is due to the Latter for independent of the danger arising from the formermode owing to the restlep and unearly condition of the patient, there is great difficulty in knowing the quartity taken and the orfice may continue open in consequence of fits of coughing-Should the disease not yield, a repetition of these remedies may be resorted to - Topical bloodletting by becker is frequently used, this practice is condemned by some writers - reasoning from analogy, it's good effects must be obvious, if in Neurting and Intentie which are inflammations of serous membranes a in gaster enteretic affections, which are intations of the mucons membrane of the alimentary canal, the acknowledged superconty of this plan of treatment is granted on all sides, why would it not be beneficial in affarmation of the Same membrane in the tracken laps may be used if lackes cannot be procused, they should be applied to the back of the neck, and news to the front part of it, as they threaten suffication. The warm bath is entitled to great oredit, it promotes the action of the ometic used after it,



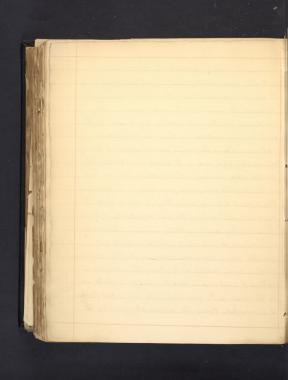
and occasions a determination to the surface of the body-Blites from their decided effect in most of the phleamasia ought always to be used when the symptoms are moderat . To the use of Marcury in this disease, the oredit is due to It. Ruhn and without it we should be deprived of one of the mot valuable acquisitions in arresting its progrep - by Burns it is aported, that Hamilton had guess it in every stage of the disease with Impunity and so great was his infatuation, that he employed it to the exclusion of other remedic, he farther state that in decided imprepion was made on the system and a cure effected. In a subsequent publication of Hamilton then observation are denied, as he wiges the necessity of the most efficient remedes as copious blood letting and Emetics, and appears astonished at the alebity which it has acquired in this country. He account for it on the supportion, that in different climates the same desease is relieved by different means. It Chafensa thinks it a valuable remedy, but says it ought not to be used until the brokence of the disease is supprefied by



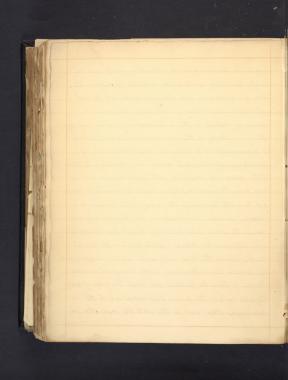
general and topical blood letting, this is known by a dimension of the duspince and the frequency of the cough, and at they period its proups action is writefed. The done of the modecine depends on the age of the patient, to a child of two years old fores grains may be given every hour, to one of see wrather dd a graw and a half and this kept up till the wacuation become copions. We should not be deterred from sometimes arise as it is extraordinary the immerse quantity that can be taken without producing saluation. Rash says he has never known it to take place in such children as required its use. This he attributes to its being given in such quantities as to pap quickly through the browles In construction of what Bush has said, to Physic had given to the extent of half a deachin of this medicine to an Infant in one day .- as a remedy it should neither be proscribed by us no should it have our extric compedence, resoft may be made to it at a proper stage of the disease and when our other remeder prove unavailing - It's being



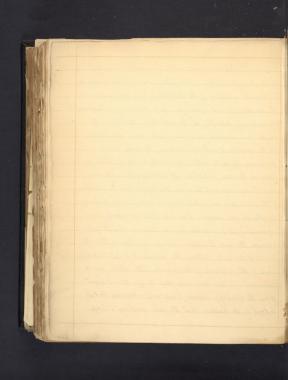
a specific in Croup is denied by the most respectable to exating a counteraction in the intertinal canal and medifying the secretion of the mucas membrane .- For promoting its operation gentle injections may be used - 31 the perile untation continues, we may result to diaphoretic medicines - This is the practice generally adapted to the inflammatoz stage, and, if the disease is not arested, the puralent stage commences which is known by a remission in the phlogestic appearance, as a change in the countriance from a florid to a lived colour, the pulse becoming fable, the rough is violent without the least expectoration, and the child beather easist in porting, which we thought most untavourable for respiration Calonel in small and repeated does a now recommended, also the Johygala Sunga which is highly extelled by to Archer, the most general method of using it is an decotton, he says it should not be too weak, as the resorblity of the largue and tracked is deminished - turing the inflammatory symptoms it



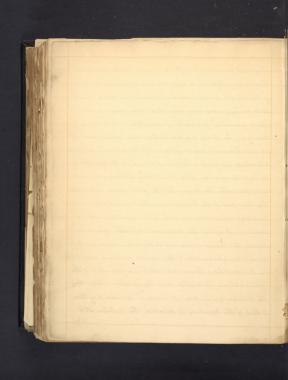
would be injurious from its stimulating effects, and only in the last stage is its active properties developed, the from of preparing it, is to take half an ounce of the oost placed in half a fint of water and reduced to four sunces by boiling, of this a teaspoonfull may be given as the circumstances of the case shall demand. The powderis recommended by It archer in does of five grains as offering equally beneficial results - By to love a mixture of the seneca nort combined with equally has been proposed, and from the great confedence which he repore in it, must act promptly in exacting the repele of the tracked to a powerful exerction, it operates by borniting, purging and weat, the doe is from ten drops to one or more teaspoonful non half hour. It Irana; speaks highly of the betriolic Emetics during this stage, and as the result of his experience, has recorded two or three cases in the New york journal-In one of them the patient was about two years of age, therough neglect the disease had advanced to the membranous stage, and in this state the respiration was



laborous, counterance lind, extremities cold, accompanied he prepared a volution of the Sulphate of hime about two drachme to an ounce of water and gave it in the done of a teaspoonple every twenty minutes, at the same time the body of the child was immored on a warm bath, made themalating by the addition of water of ammonea, the white orthol producing no ometic action, he substituted the Sulphate of lopper in the same proportion, the mandrane was detached and thrown up and in about twenty four hours the interation of the child was completely changed and it finally recovered .-If after all our somedies have been tried, our efforts proce unavailing, it is contended by some, that we should not abanden the case to nature, but do every thing within the nach of our ast. Nothing then present itself but described only and of the property of the operation, little I think can be advanced. It has been said that the operation is useful from the analogy between Coup and extraneous bodies, ledged in the tracker that the false membane is brough



they, and to extract it is to core Group - another has raid, that it is justifiable on coory principle of principle and, over, if the attempt be not orouned with necess, we should consider that we had done every thing that shill could suggest. This argument is not worthy of regulation. On principles of an operation, and even granting it to be performed, no propoile advantage can result - Ferrian is opposed to the operation, he says the upper has dened membranous substance might be extracted with the freeps, but the fluid portion, which file the lawer part of the tracker and the bronchese, still impossible to extract the membrane completely, and if we should, the patient would not be free from danger, as they depends on inflammation of the mucous membrane, and not on the concretions thrown out, which is a more effect of the inflammation. - In another orein the operation is handredone Is that if the membrane be extracted, the untation still



continuing, will cause a new concretion, which will produce unilar effects - Chayne condemns the operation, laying the thy rord being are aft to be cut which would sufficate the chied, but granting this not to be the case, the forceps introduced into a tube not half an inch in deameter, the mombrane cannot be drawn out in consequence of not being infficiently tenacione, and if it should be extracted, the child would popilly die as is the case after the membrane has been expectorated - In order to wonder the operation complete, the puriform matter with which the lungs are filled must be removed and this is impossible - the introduction of a tube can have no effect as the lungs are so goged with a visad fluid that the air cannot find accept to the air celly-By extracting the membrane, we only destroy an effect of the descase, without removing the cause, so that it will wartune to exist - The grevation has been performed in various party of the world but Ibelieve has no whose succeeded -

